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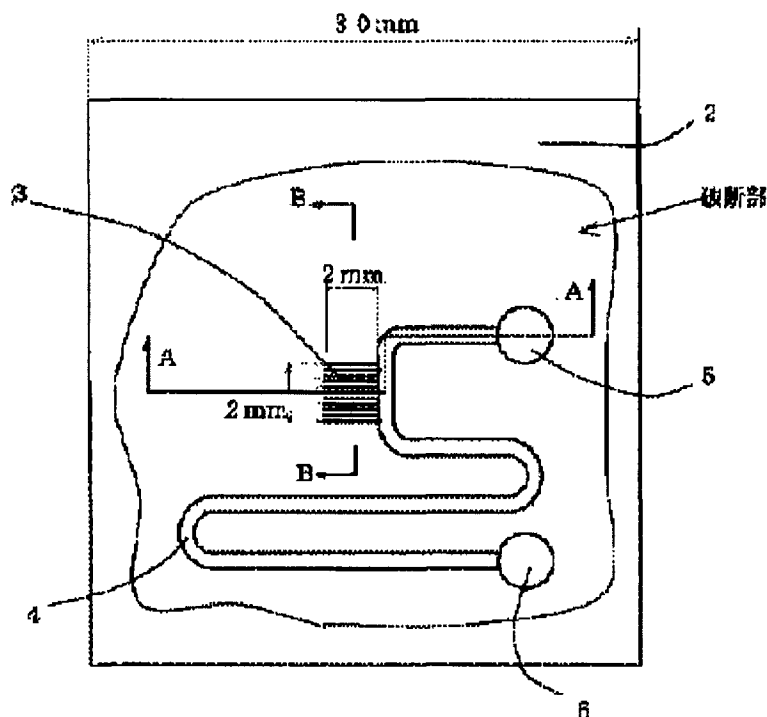
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MicroPatent® PatSearch FullText: Record 639 of 762

Search scope: US Granted US Applications EP-A EP-B WO JP DE-A DE-C GB-A ; Full patent spec.

Years: 1990-2003

Text: grating and (liquid or fluid) US or Int'l Class: g11b007* or g02b00518


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JP2002174558 (^) A

ELEMENT FOR CONVERTING FLUID (^) PRESSURE INTO OPTICAL CHARACTERISTICS, AND MANUFACTURING METHOD OF THE ELEMENT
NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL & TECHNOLOGY

Inventor(s): HOSOKAWA KAZUO ; MAEDA RYUTARO

Application No. 2000372854 JP2000372854 JP, Filed 20001207, A1 Published 20020621 Published 20020621

Abstract: PROBLEM TO BE SOLVED: To measure pressure in the small channel of a microfluid element by integrating the fine channel and a pressure detecting section.

SOLUTION: In the element for converting **fluid** (^) pressure to optical characteristics, two plates where at least one of them is transparent are laminated, a diffraction **grating** (^) and the channel are provided at the junction interface so that both of them communicate with each other, and the deformation of the diffraction **grating** (^) due to changes in the inner pressure of the channel is taken out, as a change in the optical characteristics of the diffraction **grating**. (^)

Int'l Class: G01L00900; G01F00100 G01F00134 G02B00518

Patents Citing this One: No US, EP, or WO patents/search reports have cited this patent.

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